

Fig. 1

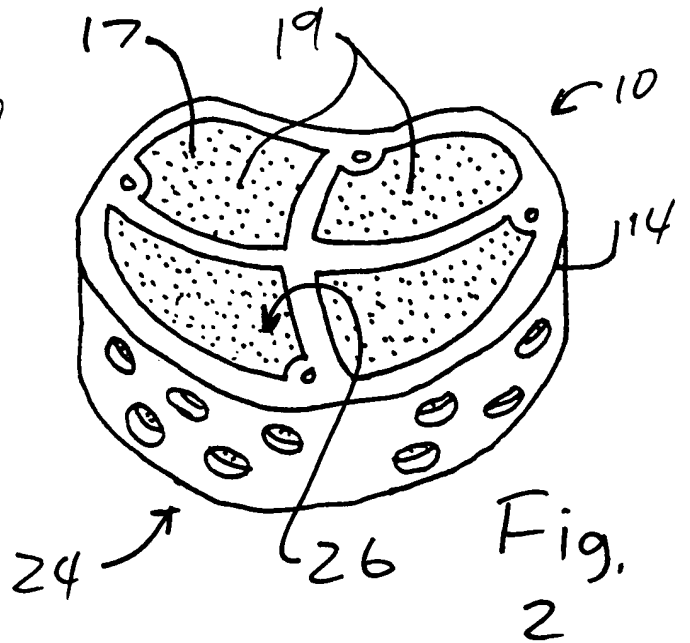


Fig. 2

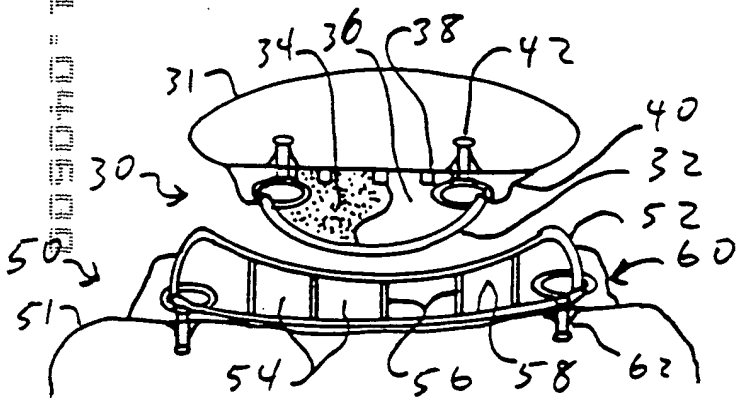


Fig. 3

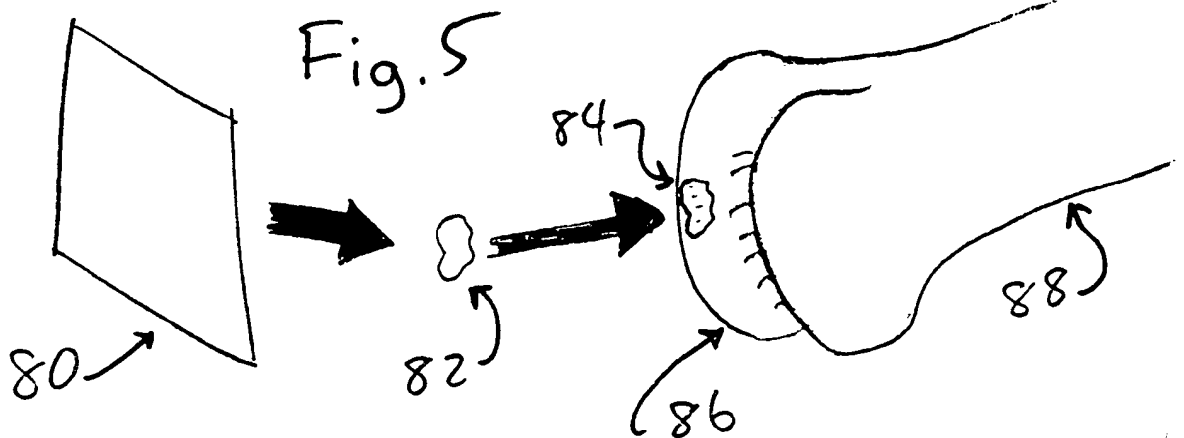
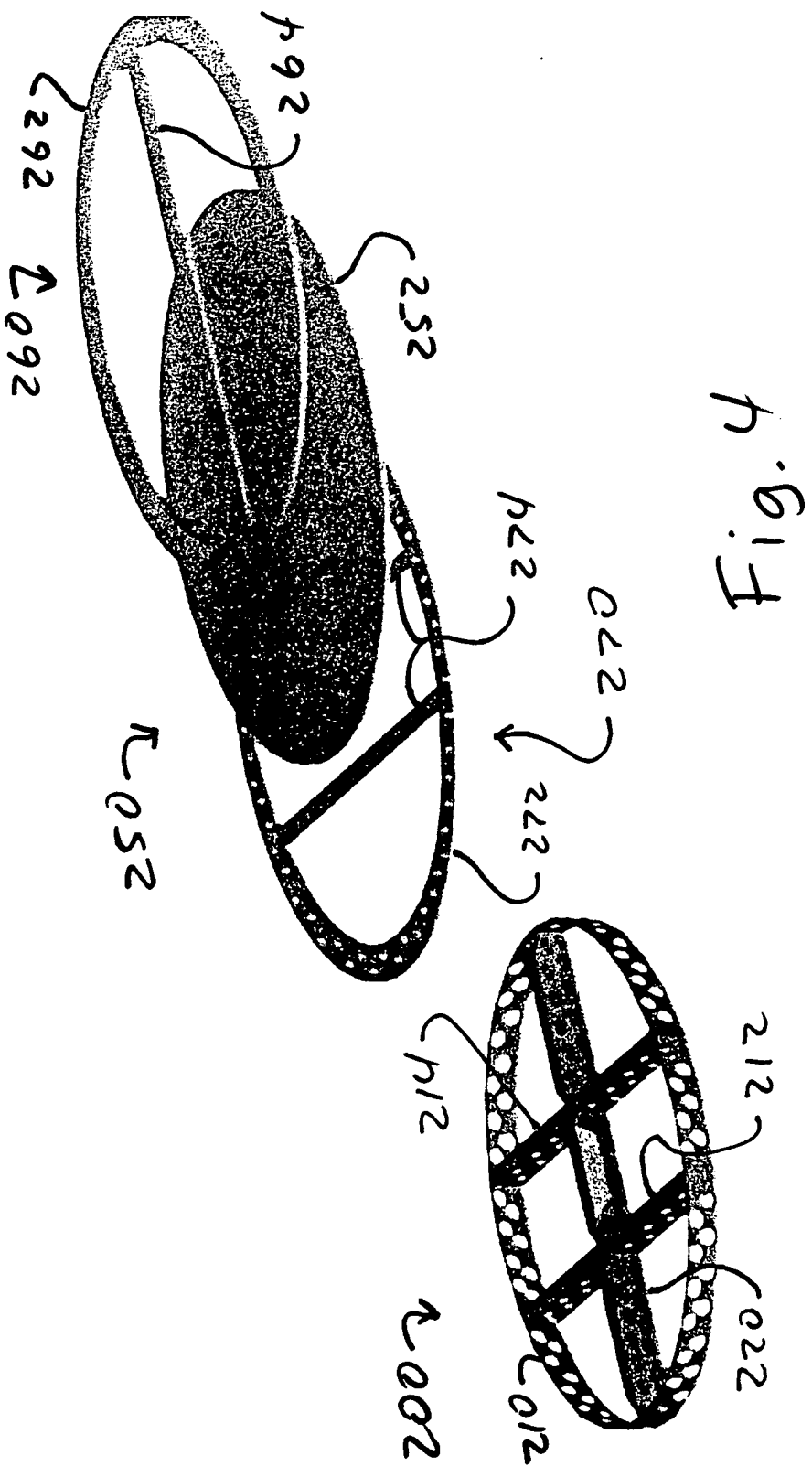


Fig. 5



LEGEND:

○ SAPL
 ○ Lubricin
 ∞ Lubricin/SAPL
 complexes

● Hyaluronic acid
 ⊕ Other macromolecules
 ≡ ≡ ≡ Semi-permeable
 membranes

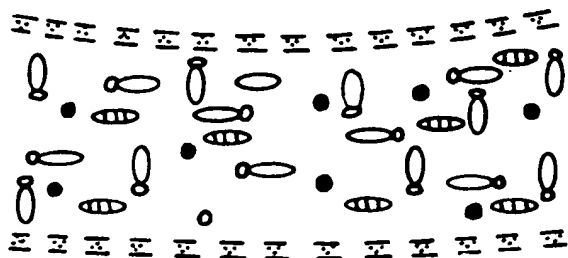


Fig. 6A
 UNLOADED JOINT SPACE

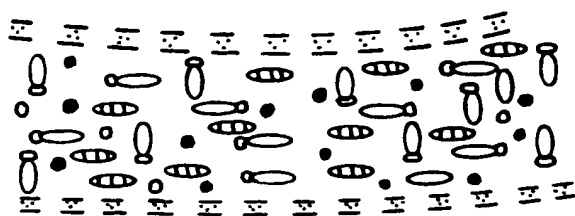


Fig. 6B
 INSTANTANEOUS
 LOADING

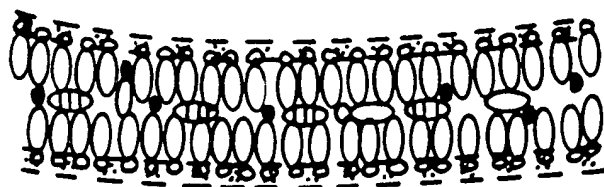


Fig. 6C
 STATIC COMPRESSION

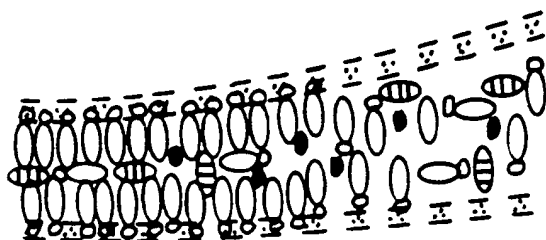


Fig. 6D
 HYDROPLANING MOTION

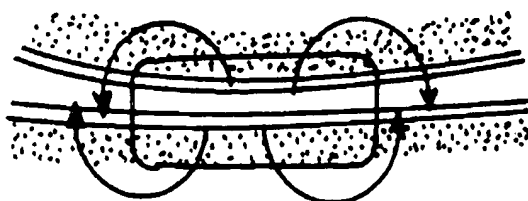


Fig. 6E
 LOADED FLUID FLOW
 THROUGH SELECTIVELY
 PERMEABLE MEMBRANES